

* NOTICES *

JPO and INPIT are not responsible for any damages caused by the use of this translation.

- 1.This document has been translated by computer. So the translation may not reflect the original precisely.
- 2.**** shows the word which can not be translated.
- 3.In the drawings, any words are not translated.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the intake implement for vacuum cleaners which has two or more hair transplantation brushes used as an attachment of a cleaner.

[0002]

[Description of the Prior Art] Drawing 7 and 8 show an example of the conventional intake implement for vacuum cleaners. The mouthpiece object with which 21 has an intake implement and inlet port 23 to which opening of 22 is carried out, and 24 are the hair transplantation brushes formed in the surroundings of inlet port 23. 25 is a communication trunk linked to the prolongator (not shown) of a vacuum cleaner (not shown), and is open for free passage to inlet port. Thus, the constituted intake implement 21 rakes out the dust of a up cleaned field with the hair transplantation brush formed in the surroundings of inlet port 23, and attracts dust from inlet port 23.

[0003]

[Problem(s) to be Solved by the Invention] While the intake implement constituted as mentioned above stuck the hair transplantation brush 24 of an intake implement to a cleaning side so much and was cleaned, the cleaning side could be cleaned, but when the actuation include angle to the cleaning side of an intake implement was changed, in order that [of the hair transplantation brush 24 formed in the perimeter of inlet port 23] the part of an except might surely separate from a cleaning side, the sink force was declining in part.

[0004] Moreover, so much, to the cleaning side which has a fine slot, for example like the keyboard of a computer if, since the hair transplantation brush 24 could not be entered into the pars basilaris ossis occipitalis of a slot etc., it had the problem that exact cleaning could not be performed, at it.

[0005] To the cleaning side which was made in order that this invention might solve this trouble, and has a fine slot like the keyboard of a computer, so much It aims at offering the intake implement for vacuum cleaners which can carry out exact cleaning because make the sink force hold and a hair transplantation brush enters into the pars basilaris ossis occipitalis of a slot etc. so much by securing adhesion of a hair transplantation brush even when changing the actuation include angle to the cleaning side of an intake implement.

[0006]

[Means for Solving the Problem] The intake implement for vacuum cleaners concerning this invention is constituted as follows. In the intake implement for vacuum cleaners which consists of the mouthpiece object which has inlet port which carries out opening to circular, an ellipse form, an ellipse, or a rectangle, the communication trunk linked to the prolongator of the vacuum cleaner formed in the opposite side of said inlet port, and the path which is open for free passage from said inlet port to said communication trunk While having the brush section which consists of two or more band-like hair transplantation brushes which pass along the surroundings of said inlet port, and the inflow section of the intake air current to said inlet port and arranging said brush section and said inflow section by turns It considers as the structure of having said nearby brush section and said brush section which forms a

predetermined spread include angle.

[0007]

[Embodiment of the Invention] Gestalt 1 drawing 1 of operation and 2 are transverse-plane drawings of longitudinal section and the top views of the intake implement for vacuum cleaners of operation. [of a gestalt 1] Moreover, drawing 3 , and 4, 5 and 6 are the busy condition Figs. of the intake implement for vacuum cleaners at the time of cleaning. 11 is an intake implement, it is formed from the nozzle 3 which has inlet port 2, and the connection 6 linked to the prolongator (not shown) of a vacuum cleaner (not shown), and inlet port 2 is open for free passage to a connection 6 through a nozzle 3.

[0008] The brush sections 5A and 5B which consist of two or more band-like hair transplantation brushes are formed in the surroundings of inlet port 2, and U character configuration and brush section 5B is formed [inlet port 2] so much in juxtaposition for brush section 5A at inlet port 2.

[0009] Inlet port 2 has become ellipse-like, the spread include angle C predetermined in the pars basilaris ossis occipitalis of the brush sections 5A and 5B is formed, and the inflow section 4 of the intake air current to inlet port 2 is formed in the pars intermedia of the brush sections 5A and 5B.

[0010] Moreover, the center section currently formed in juxtaposition of brush section 5B at the lower part of inlet port 2 is the inflow section 4 of an intake air current.

[0011] Next, the busy condition of the intake implement for vacuum cleaners at the time of cleaning is explained. In drawing 3 , the intake implement for vacuum cleaners is used at the actuation include angle which brush section 5A sticks to the cleaning side 30 so much. At this time, 31, such as dust on the cleaning side 30, passes the inflow section 4 of an intake air current, and is absorbed inside inlet port 2.

[0012] Moreover, in drawing 4 , the intake implement for vacuum cleaners is used at the actuation include angle which brush section 5A and brush section 5B stick to the cleaning side 30 so much. At this time, 31, such as dust on the cleaning side 30, passes the inflow section 4 of an intake air current, and is absorbed inside inlet port 2.

[0013] In drawing 5 , the intake implement for vacuum cleaners is used further again at the actuation include angle which brush section 5B sticks to the cleaning side 30 so much. At this time, 31, such as dust on the cleaning side 30, passes the inflow section 4 of an intake air current, and is absorbed inside inlet port 2.

[0014] Thus, even if the intake implement for vacuum cleaners changes the actuation include angle used like drawing 5 from drawing 3 , it has structure which brush section 5A or brush section 5B always sticks to the cleaning side 30 so much.

[0015] Therefore, it can carry out exact cleaning, holding the sink force, since the intake implement for vacuum cleaners can secure adhesion of a hair transplantation brush even when changing the actuation include angle to the cleaning side 30.

[0016] Moreover, in drawing 6 , the intake implement for vacuum cleaners is used so much for the cleaning side 33 which has a fine slot 32 like the keyboard of a computer, for example. At this time, 31, such as dust in the pars basilaris ossis occipitalis of the fine slot 32, is that brush section 5A or brush section 5B enters into the pars basilaris ossis occipitalis of the fine slot 32, passes the inflow section 4 of an intake air current, and is absorbed inside inlet port 2.

[0017] Therefore, the intake implement for vacuum cleaners can carry out exact cleaning because the brush section enters the cleaning side 33 with a fine slot 32 like the keyboard of a computer at the pars basilaris ossis occipitalis of the so fine slot 32.

[0018]

[Effect of the Invention] The intake implement for vacuum cleaners of this invention can acquire effectiveness as taken below so that clearly from the above explanation. Exact cleaning can be carried out holding the sink force by securing adhesion of the brush section, even when changing the actuation include angle of the intake implement for vacuum cleaners to a cleaning side. Moreover, exact cleaning can be carried out when the brush section enters the cleaning side which has a fine slot like the keyboard of a computer, for example at the pars basilaris ossis occipitalis of a so fine slot.

[Translation done.]